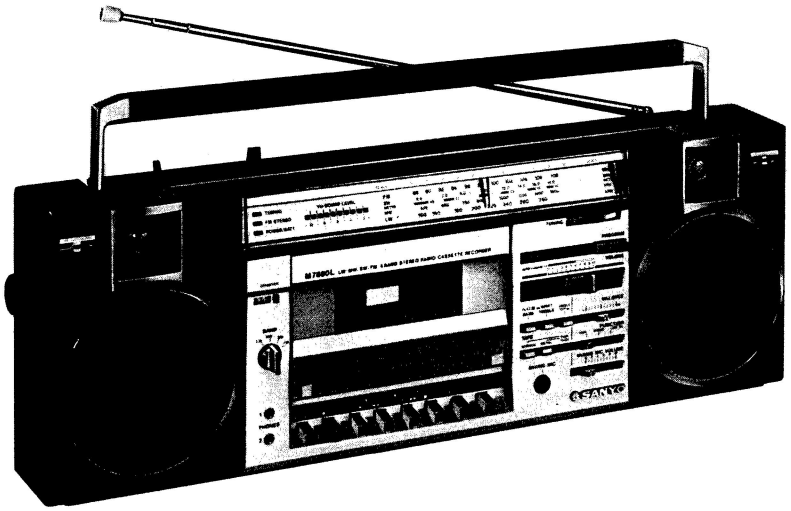
SERVICE MANUAL

SANYO

CASSETTE RECORDER

M 7880L

(EUROPE)



SPECIFICATIONS

Recording system	AC bias, 4-track stereo
Erasing system	AC erase, 2-track
Tape speed	4.75 cm/sec (1-7/8 i.p.s.)
Fast forward and Rewind time	2 min. (C–60)
Frequency range	LW: 150 – 285 kHz
	MW: 525 – 1,605 kHz
	SW: 5.95 – 18 MHz
	FM: 87.5 – 108 MHz
Terminal impedance	MIC: 2k ohms
	MIXING MIC: 2k ohms
	LINE IN: 60k ohms
	LINE OUT: 6k ohms
	EXT SP: 3 – 8 ohms
	PHONES: 8 – 40 ohms
Frequency response	63 – 12,000 Hz (NORMAL)
	63 – 13,000 Hz (CrO_2)
	63 – 14,000 Hz (METAL)
Output power	8 W maximum
Power source	DC: 10.5 V, "UM–2" x 7
	AC: 115/230 V, 50/60 Hz
Dimensions	464.5 (W) x 159 (H) x 111 (D) mm
Weight	Approx. 3.65 kg including batteries.

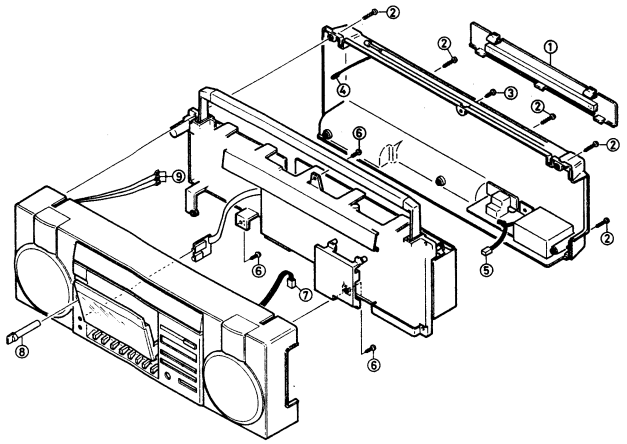
* Specifications subject to change without notice.

WM-8422

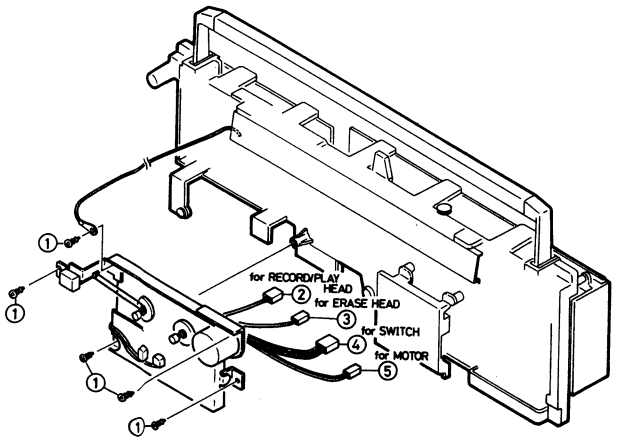
DISASSEMBLING PRODEDURE

Remove batteries from battery case, or unplug the AC line.

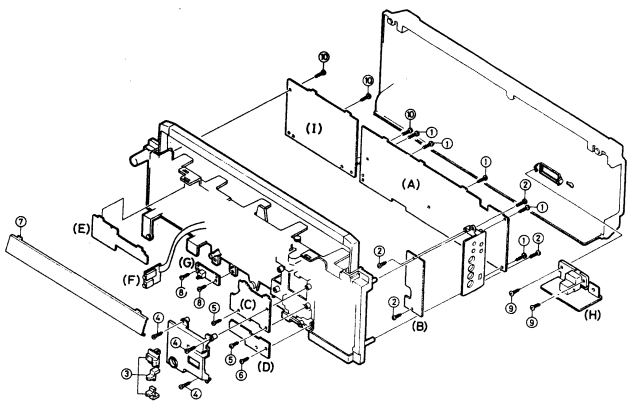
(1) Dismounting the back lid, cabinet, and chassis
Remove in the numerical order:
1. Battery lead
2. Pan head tapping screw 3 x 25 mm
3. Pan head tapping screw 3 x 14 mm
4. Antenna socket (1P)
5. Line plug socket (2P)
6. Pan head tapping screw 3 x 12 mm (red)
7. Speaker socket (3P)
8. Band selector
9. Fine tuning socket (1P)



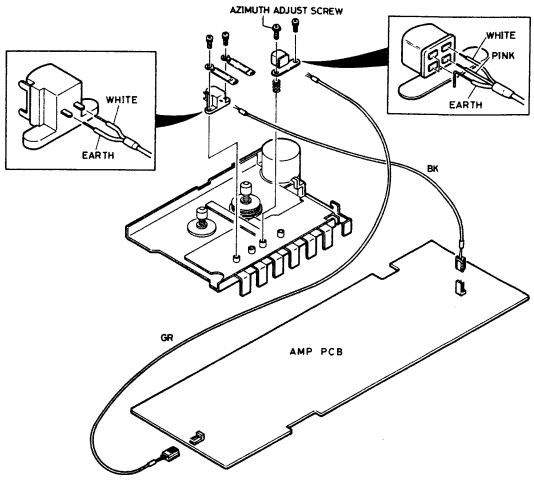
(2) Dismounting the mechanism
Remove in the numerical order:
1. Flat head tapping screw 3 x 10 mm
2. Record/playbakc socket head (3P)
3. Erasing head socket (2P)
4. Switch socket (4P)
5. Motor socket (2P)



(3) Dismounting the printed circuit boards
Remove in the numerical order:
(A) Amplifier PCB
1. Pan head tapping screw 3 x 10 mm
(B) Socket PCB
2. Pan head tapping screw 3 x 10 mm
(C) VR PCB
3. Slide knob
4. Pan head tapping screw 3 x 18 mm
5. Pan head tapping screw 3 x 10 mm
(D) Mix. mic. PCB
6. Pan head tapping screw 3 x 10 mm
(E) LED PCB
7. Dial scale
(F) Headphone PCB
* Insert into cabinet.
(G) Switch PCB
8. Pan head tapping screw 3 x 8 mm
(H) Power source PCB
9. Pan head tapping screw 3 x 10 mm
(I) Tuner PCB
10. Pan head tapping screw 3 x 10 mm



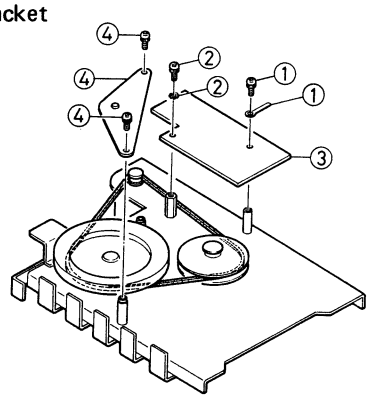
(4) Replacement of head, adjustment of azimuth
Disconnect as shown below, and replace the head.
After replacing the head, clean the head and erase it by means of head eraser.
Play bakc an azimuth adjusting tape (VTT-658: 10 kHz, etc.), and turn the azimuth adjusting screw with a Phillips screwdriver so that the right and left channel outputs may attain the maxiumu level in both side 1 and 2.



(5) Replacement of belt

Remove in the numerical order:

1. Pan head screw w/spring washer 2 x 5 mm and lug
2. Pan head screw w/spring washer 2 x 5 mm and outer tooth washer
3. Motor PCB
4. Pan head screw w/spring washer 2 x 5 mm and fly-wheel bracket



THREADING OF DIAL ROPE

(1) Preparation

1. Repare a rope (0.3 x 1200 mm).
2. Tie the rope on a nail so that the folded length may be 543 to 545 mm. With a spring coil attached, the rope length will be 549 ± 1 mm.

(2) Procedure

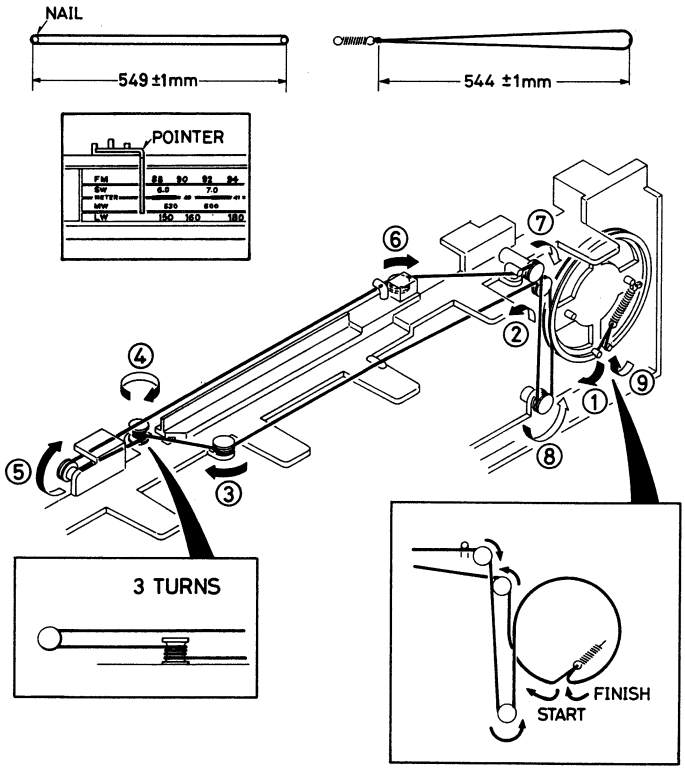
Apply the spring coil on the drum as shown below, and thread the rope numerically from (1) to (3), and wind around the tuning shaft (4) by three turns, and then thread along from (5) to (9), and return to the spring coil.

NOTE: Before threading the rope, turn the VC fully in the arrow direction, and set the drum as shown in the sketch.

(3) Scale accordance

With the rope applied, fit the needle by adjusting it to the "0" point on the dial scale.

Nail



ADJUSTMENT OF AMPLIFIER

(1) Adjustment of playbakc gain

* Function switch: TAPE
Balance control: Center
Bass, treble buttons: OFF
Volume, mic. level controls: MIN
Tape selector: NORMAL
Set: Playback mode
Run a test tape VTT633 (1 kHz, −0 dB). Connect three-ohm dummy to external speaker terminal, and turn SVR701 until the L and R LINE OUT outpurs reach the same level.

(2) AMSS adjustment

* Function switch: TAPE
AMSS switch: ON (AMSS 3 by program selector, and in PLAY + F. FWD mode)
Bass, treble buttons: OFF
Volume, mic. level control: MIN
Tape selector: NORMAL
Balance control: Center
Set: Playbakc mode
Run a test tape of 1 kHz, −35 dB from its beginning of reel (tape counter reading from 000 to 020), and turn SVR601 until the output between pin 3 of IC601 and earth becomes 200 mV.
NOTE: A test tape of 1 kHz, −35 dB is a recording of 1 kHz, 0 dB tpae at −35 dB level.

ADJUSTMENT OF MECHANISM

(1) Adjustment of azimuth

1. Play bakc an azimuth adjusting test tape (VTT-658: 10 kHz/25 mM, −15 dB, etc.).
2. Turn the azimuth adjusting screw with a Phillips screwdriver until the output beomces maximum in both right and left channels, on both sides of a cassette tape.

(2) Checking and adjustment of mechanism

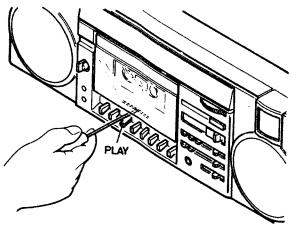
Clean the head, capstan, and pinch roller before measuring. Check the torque and tension, which should conform to the table below.
If specified value is not obtained, check the transmission mechanism corresponding to the defective item. If a defective part is found, replace, and check again.

(3) Adjustment of motor speed

Play back a test tape (MTT-111: 3 kHz, 0 dB, etc.). Insert a screwdriver from a motot PCB hole to adjust so that the frequency counter reads 3,000 Hz.

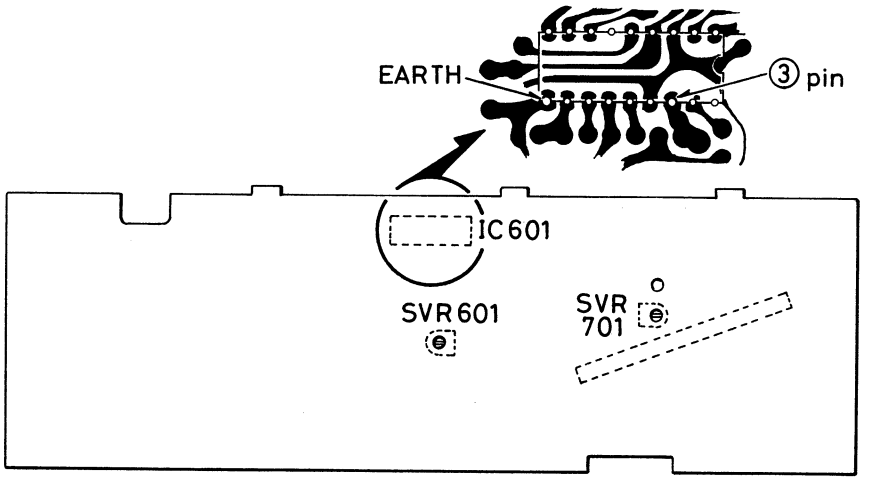
(4) Brief description of auto-stop mechanism (See exploded view of mechanism.)

When the take-up torque (G7) stops, the auto-stop detection lever (j) in the reel stops functioning, and the reciprocating motion of the auto-stop slide (13) is interrupted by the detection lever. By the function of the gear (H4) for auto-stop mechanism, the shaft of the lever (I4) which has been reciprocating like the auto-stop slide is pushed out. As a result, the lever (I4) is pushed back, and the button lock slide (C10) is unlocked, thereby bringing the set to an automatic stop.



Measuring item	Take-up torque	Back tension	Tape tension
Cassette for measurement	PLAY: TW-211 F.FWD/REW: TW-2231	PLAY/F.FWD: TW-211 REW: Torque gauge	Driver power cassette TW-2412
PLAY	30 to 60 gr-cm	3 to 5 gr-cm	90 gr or more
F.FWD	80 to 130 gr-cm	3 to 5 gr-cm	Pinch roller Pressure: 230 gr or more
REW	80 to 130 gr-cm	4 to 8 gr-cm	

'ARTS LOCATIONS(AMP)



TUNER ADJUSTMENT

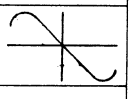
MW ADJUSTMENT

Set the DC10.5V Speaker Impedance is 3 ohms.

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.T.	Connect sweep generator to Test Loop.	Connect oscilloscope to EXT. SP. terminals	460 KHz	Low end of dial scale under no station signal.	T303, T304	MAX.
2	OSC.	Connect AM SG to Test Loop.	Connect VTVM to speaker terminals.	505 KHz (400 Hz 30% modulation)	Low end of dial scale	L108	MAX.
3				1670 KHz (400 Hz 30% modulation)	High end of dial scale	VCT 4	
4	ANT.	Connect AM SG to Test Loop.	Connect VTVM to speaker terminals.	600 KHz (400 Hz 30% modulation)	600 KHz on dial scale	L106-1	MAX.
5				1400 KHz (400 Hz 30% modulation	1400 KHz on dial scale	VCT3	
6	Repeat adjustments 2, 3, 4 and 5.						

PREPARE: 1. Set the dial pointer to very left line of dial scale.
2. Connect sweep generator, AM SG, VTVM and oscilloscope.
3. Selector switch to "MW"
4. Use a screwdriver with plastic grip for all adjustments.

FM ADJUSTMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	I.F.	Connect sweep generator to TP-1 (H) & TP-2 (E)	Connect oscilloscope to TP-3 (H) & TP-5 (E)	10.7 MHz (0% modulation)	Near max. capacitance tuning gang under no station signal.	T301	Match Wave form Ceramic filtar center
2	Ratio Det.		Connect oscilloscope to TP-3 (H) & TP-5 (E)			T302	
3	OSC.	Connect FM SG to TP-1 (H) & TP-2(E)	Connect VTVM to speaker terminal.	87.35 MHz (400 Hz 30% modulation)	Low end of dial scale	L103	MAX.
4				108.5 MHz (400 Hz 30% modulation)	High end of dial scale	VCT-2	
5	ANT.	Connect FM SG. to TP-1 (H) & TP-2(E)	Connect VTVM to speaker terminal.	90.0 MHz (400 Hz 30% modulation)	90.0 MHz on dial scale	L101	MAX.
6				106.0 MHz (400 Hz 30% modulation)	106.0 MHz on dial scale	VCT-1	
7	Repeat adjustments 2, 3, 4 and 5.						

PREPARE: 1. Set the dial pointer to very left line of dial scale.
2. Connect sweep generaotr, FM SG, VTVM and oscilloscope.
3. Use a screwdriver with plastic grip for all adjustments.
4. When IF adjust, DC cut the TP-3 & TP-4 with 2.2μF.

LW ADJUSTMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	OSC.	Connect AM SG to test loop.	Connect VTVM to speaker terminals.	145KHz (400 Hz 30% modulation)	Low end of dial scale	L109	MAX.
2				295MHz (400 Hz 30% modulation)	High end of dial scale	CT-4	
3	ANT.	Connect AM SG to test loop.	Connect VTVM to speaker terminals.	160MHz(400 Hz 30% modulation)	160 KHz on dial scale	L106-2	MAX.
4				280KHz(400 Hz 30% modulation)	280KHz on dial scale	CT-2	
5	Repeat adjustments 2, 3, 4 and 5.						

PREPARE: 1. Set the dial pointer to very left line of dial scale.
2. Connect sweep generator, AM SG, VTVM and Oscilloscope.
3. Selector switch to "LW".
4. Use a screwdriver with plastic grip for all adjustments.

SW ADJUSTMENT

Step	Adjusting Circuit	Connections		SG frequency	Position of tuning dial	Adjustment	VTVM Oscilloscope
		Input	Output				
1	OSC.	Connect AM SG. to ANT terminal through dummy.	Connect VTVM to EXT. SP. terminals.	5.85 MHz(400Hz 30% modulation)	Low end of dial scale.	L107	MAX.
2				18.7 MHz(400 Hz 30% modulation)	High end of dial scale.	CT-3	
3	ANT.	Connect AM SG. to ANT terminal through dummy.	Connect VTVM to EXT. SP. terminals.	7.0 MHz (400 Hz 30% modulation)	7.0 MHz on dial scale	L105	MAX.
4				18.0 MHz (400 Hz 30% modulation)	18.0MHz on dial scale	CT-1	
5	Repeat adjustments 2, 3, 4 and 5.						

PREPARE: 1. Set the dial pointer to very left line dial scale.
2. Connect sweep generator, AM SG, VTVM and Oscilloscope.
3. Use screwdriver with plastic grip for all adjustments.
4. Selector switch to "SW "

FM-MPX ADJUSTMENT

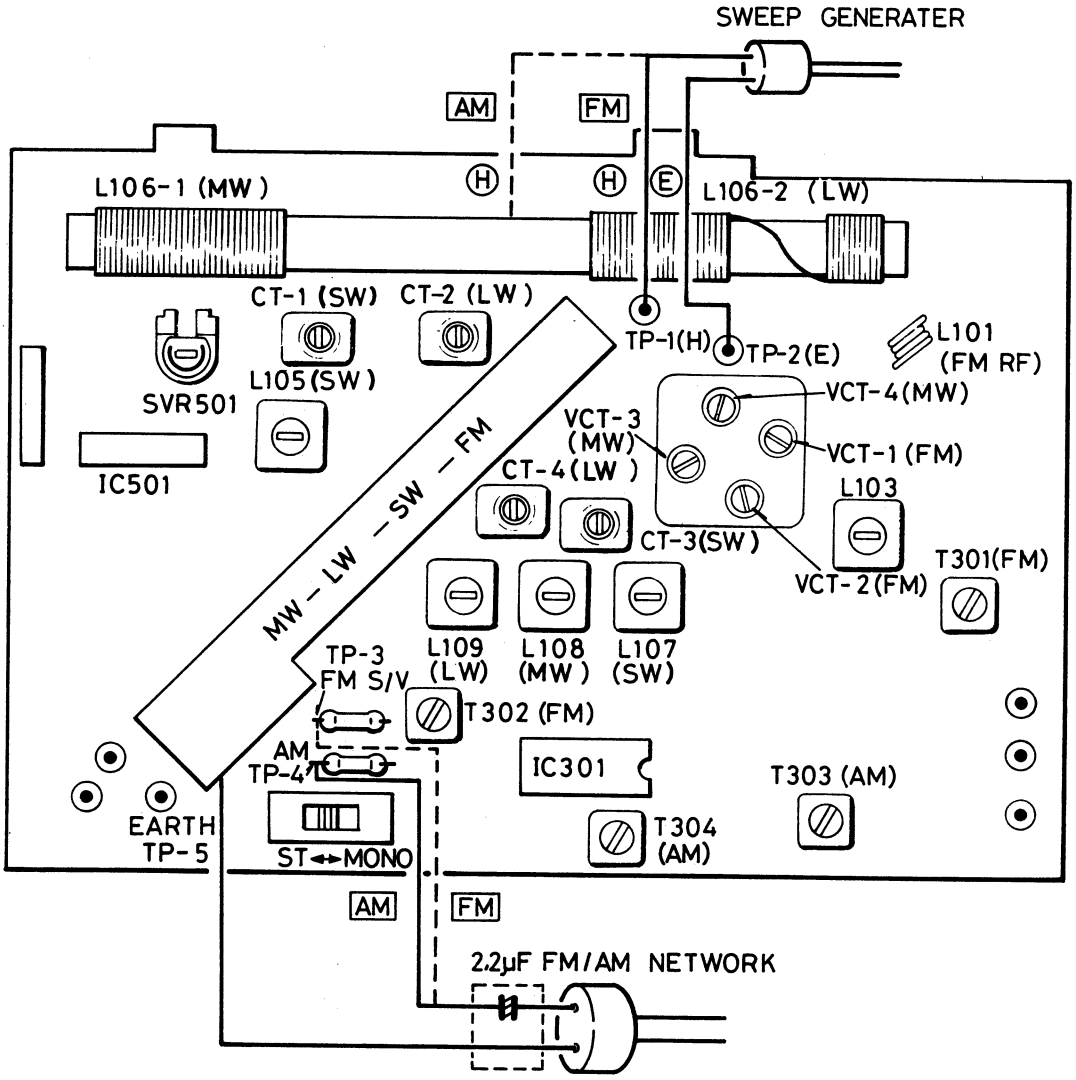
This adjustment should be after adjustment of FM Tuner.
Mode SW ..... Stereo, Tone ..... Min., Treble, Bass ..... off, Balance ..... Mechanical center.,
Volume ..... Standard output (50 mW = 0.39 V)
Band SW ..... FM

Carrier signal modulation frequency ; 1000 Hz ±22.5 KHz dev.
Pilot Signal (19 KHz) ; ±7.5 KHz dev.

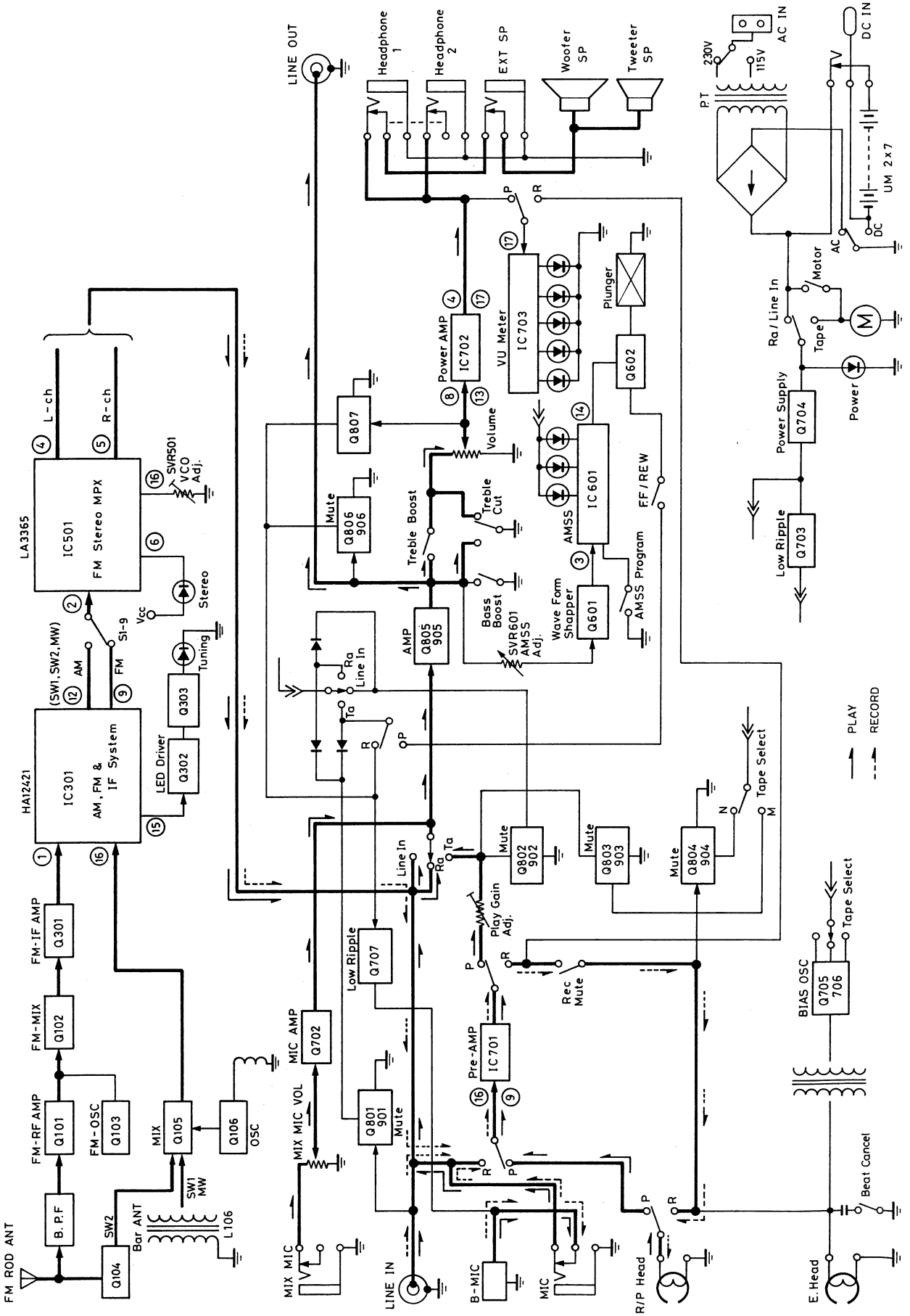
Step	Adjustment Circuit	Connections		SG frequency & Gain	Position of tuning dial	Adjustment	Traget value	Method of adjustment
		Input	Output					
1	VCO (19 KHz)	Connect FM SG to test point TP-1 (H) & TP-2 (E)	Connect frequency counter to *TP-6 (H) TP-5 (E) (Band SW. case)	98 MHz (66 dB)	98 MHz	SVR501	19 KHz ±100 Hz	(1) In FM stereo mode and tune in. (2) *Adjust with no modulation.
2	Separation		Connect VTVM to EXT-SP terminal. Output in both L and R channel	98 MHz (66 dB)	98 MHz	——	L = R more than 20 dB	By changing over the channels* on stereo modulator, adjust the leakage current of opposite channel to minimum.

* "No modulation" means to set MAIN & SUB signal and PILOT signal of stereo modulator to "OFF" position.
* When changing over the channels, exchange the connections of the external speaker terminals at the same time.
* Insert a resistor 47K ohm between TP-6 and counter.

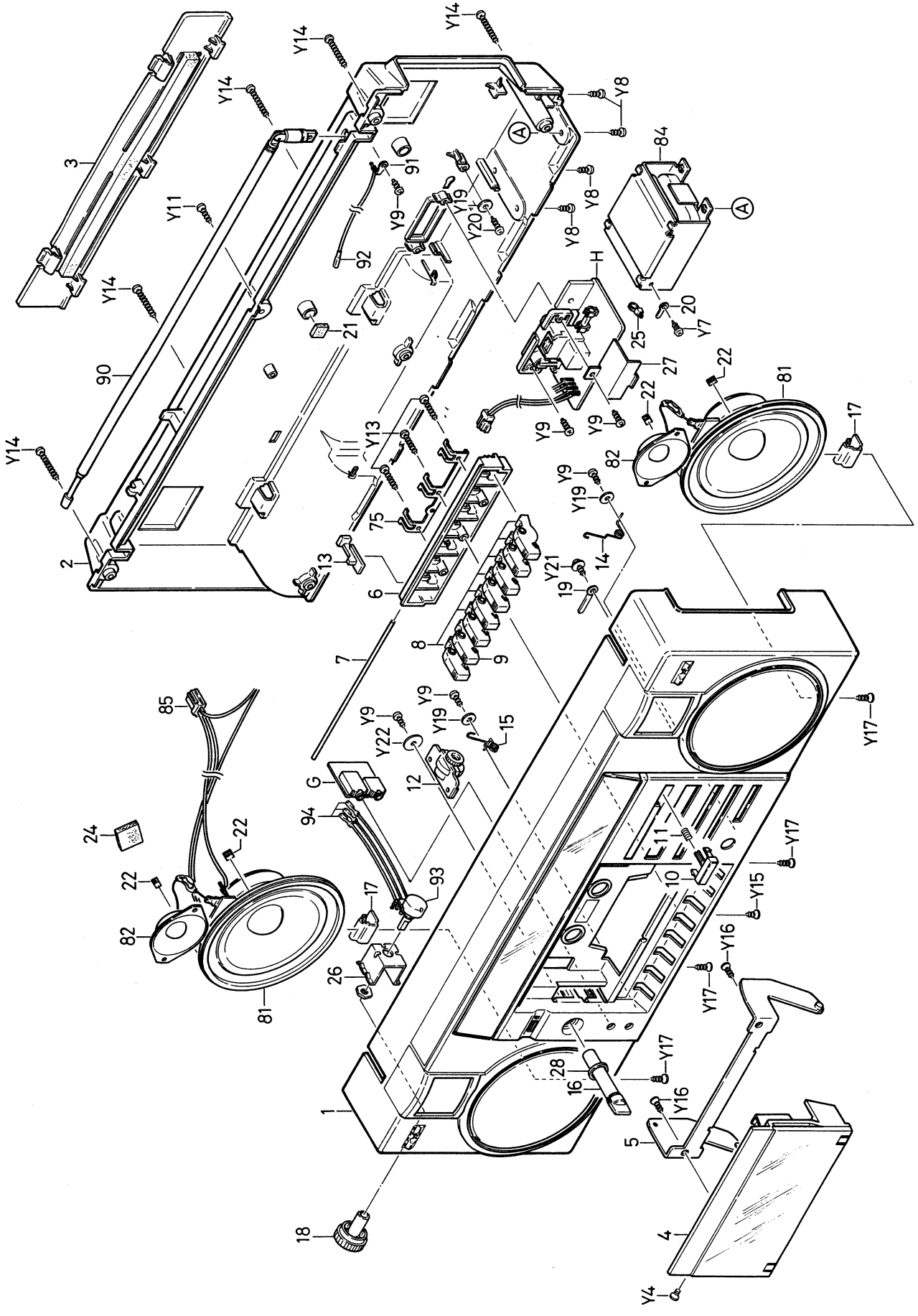
PARTS LOCATIONS (TUNER)



BLOCK DIAGRAM



CABINET EXPLODED VIEW



PARTS LIST

Key No.	Part No.	Description	Q'ty
PACKING			
	141-6-133T-38502	Individual Carton	1
	141-6-144T-83200	Foam Plastic Case (L)	1
	141-6-144T-83300	Foam Plastic Case (R)	1
	141-6-415T-30100	Notice (FTZ)	1
	141-6-231T-30605	Inner Polye Case, Set	1
	141-6-231T-20350	Inner Polye Cover, Inst. M.	1
ACCESSORY			
	141-6-410T-84200	Instruction Manual	1
	4-243T-77981	Power Cord	1
	4-241T-12671	Cassette Tape	1
CABINET			
1	141-0-111T-54004	Cabinet Ass'y	1
2	141-0-126T-40103	Back Lid Ass'y	1
3	141-0-128T-19000	Battery Lid Ass'y	1
4	141-0-124T-36302	Top Lid Ass'y	1
5	141-0-224T-13900	Bracket Ass'y, Lid	1
6	141-2-747T-24200	Bracket, Lever	1
7	141-2-754T-29000	Shaft	1
8	141-2-162T-21102	Lever Knob	7
9	141-2-162T-21101	Lever Knob, Rec	1
10	141-2-160T-14600	Push Button, AMSS	1
11	141-2-855T-63000	Spring Coil	1
12	141-2-581T-24701	Gear	1
13	141-2-253T-32600	Joint	1
14	141-2-852T-78200	Spring Wire	1
15	141-2-852T-78300	Spring Wire	1
16	141-2-163T-90400	Rotary Knob, Band Select	1
17	141-2-372T-04700	Bracket, Speaker	2
18	141-2-163T-89001	Rotary Knob, Fine Tuning	1
19	141-2-472T-01201	Lug	1
20	123-2-472R-00401	Lug	1
21	141-2-447T-63200	Cushion, 10x10x4t	2
22	141-2-247T-08900	Sheet, Fiber 4x15x1.2t	4
24	141-2-447T-46200	Cushion, 15x25x3t	1
25	141-2-464T-20600	Fixer	2
26	141-2-361T-20700	Bracket, Fine Tuning	1
27	141-2-135T-85900	Cover, Power PCB	1
28	141-2-447T-96500	Cushion, 9.5x13x4t	1
CHASSIS			
31	141-2-352T-58900	Spacer, VU LED	1
32	141-2-352T-59000	Spacer, AMSS LED	1
33	141-2-855T-96000	Spring Coil	5
34	141-2-311T-41900	Chassis	1
35	141-0-171T-19800	Handle Ass'y	1
36	141-2-361T-20600	Bracket, VR	1
37	141-2-367T-36500	Bracket, Socket	1
38	141-2-271T-20500	Bracket, Handle	2
39	141-2-742T-91300	Lever, REC	1
40	141-2-853T-73300	Spring Plate, REC	1
41	141-2-253T-32500	Joint, Tape Switch	2
42	141-2-241T-25500	Veil, Function	1
43	141-0-511T-24000	Pointer Ass'y	1
44	141-2-146T-30102	Dial Scale	1
45	141-2-310T-78100	Bracket	1
46	141-2-310T-78200	Bracket	1
47	141-2-566T-13000	Tuning Shaft	1
48	141-2-538T-13000	Drum	1
49	141-2-253T-24600	Joint, VC	1
50	141-2-851T-06300	Spring Coil	1
51	141-2-340T-03001	Rope	1
52	141-2-567T-02000	Pulley Shaft	5

Key No.	Part No.	Description	Q'ty
CHASSIS			
53	141-2-661T-24600	Pulley	6
54	141-2-163T-90300	Rotary Knob, Tuning	1
55	141-2-164T-30900	Slide Knob, Volume	1
56	141-2-164T-31000	Slide Knob, Balance	1
57	141-2-164T-31100	Slide Knob, Mic VR	1
58	141-2-162T-21000	Lever Knob, Function	1
59	141-2-160T-14700	Push Button, Tape/Tone Switch	5
60	141-2-457T-23000	Special Washer	1
61	141-2-567T-02100	Pulley Shaft	1
62	123-2-472R-00601	Lug	1
63	141-2-732T-04900	Slide	1
64	141-2-852T-73200	Spring Wire	1
65	141-2-461T-44700	Pipe	1
66	141-2-742T-91600	Lever	1
67	141-2-856T-01900	Spring Coil	1
68	141-2-461T-44100	Pipe	1
69	141-2-421T-37000	Special Screw	1
70	141-2-457T-23800	Special Washer	1
71	141-2-811T-11400	Counter	1
72	141-2-812T-11700	Bracket, Counter	1
73	141-2-564T-27500	Square Belt	1
74	141-2-464T-20671	Fixer	5
75	141-2-853T-80900	Spring Plate	1
76	141-2-447T-40501	Cushion	1
77	141-2-472T-05700	Lug	2
78	141-2-447T-46200	Cushion 15x25x3t	1
79	141-2-447T-49700	Cushion 15x25x15t	1
80	141-2-447T-96400	Cushion 10x15x10t	1
81	141-2-421T-39900	Special Screw	2
HARDWARE			
Y1		Pan Hd. Screw W/Spring Washer 2x4mm	1
Y2		Pan Hd. Screw W/Spring Washer 2x5mm	1
Y3		Pan Hd. Screw W/Spring Washer 2x10mm	1
Y4		Flat Hd. Screw 3x4mm	1
Y5		Flat Hd. Screw 3x6mm	1
Y6		Pan Hd. Tapping Screw 3x4mm	1
Y7		Pan Hd. Self-Tapping Screw 3x6mm	1
Y8		Pan Hd. Tapping Screw 3x8mm	6
Y9		Pan Hd. Tapping Screw 3x10mm	21
Y10		Pan Hd. Tapping Screw 3x12mm	2
Y11		Pan Hd. Tapping Screw 3x14mm	4
Y12		Pan Hd. Tapping Screw 3x18mm	3
Y13		Pan Hd. Tapping Screw 3x20mm	3
Y14		Pan Hd. Tapping Screw 3x25mm	5
Y15		Flat Hd. Tapping Screw 3x6mm	1
Y16		Flat Hd. Tapping Screw 3x8mm	2
Y17		Flat Hd. Tapping Screw 3x10mm	7
Y18		Regular Hexagon Bolt 2.6x6mm	1
Y19		Washer 3x10x0.5mm	2
Y20		Pan Hd. Tapping Screw W/Washer 3x6mm	2
Y21		Pan Hd. Tapping Screw W/Washer 3x8mm	4
Y22		Washer 3x13x1mm	1
Y23		Pan Hd. Screw W/Washer 3x6mm	2

PARTS LIST

Key No.	Part No.	Description	Q'ty
ELECTRICAL PARTS			
81	4-151T-40900	Speaker 10cm	2
82	4-151T-37000	Speaker 4cm	2
83	4-153T-11771 4-153T-11772	} or Inner Microphone	2
84	4-300T-59900	Power Trans.	1
85	4-240T-30600	Socket, SP	1
86	4-240T-30700	Socket 4P, C Mic	1
87	4-238T-51800	Lever Switch	1
88	4-540T-02100	Remote Wire	1
89	4-253T-14836	Filter (L802, 902) 220μH	2
90	4-234T-06071	Fuse 1.6A	1
91	4-244T-06100	Rod Antenna	1
92	141-2-472T-05700	Lug	1
93	4-240T-25300	Socket	1
94	4-220T-04500	Variable Resistor 10K-B	1
95	4-240T-25300	Socket	3
AMP PCB ASS'Y			
A	141-4-250T-49801	P.C Board Ass'y, AMP	1
	4-238T-51700	Switch, Function	1
	4-238T-51900	Switch, Tape Select	1
	4-238T-26872	Switch, R/P	1
	4-238T-44300	Switch, Beet Cancel	1
SVR601 701	4-222T-97578	Semifixed Variable Resistor 100KB	2
	4-236T-19800	Plug, 2P AMP-POWER	1
	4-236T-19500	Plug, R/P, SP, 3P	2
	4-236T-19772	Plug, Mechanism, 4P	1
	4-236T-19700	Plug, E Head, Motor, 2P	2
	4-240T-11372	Socket,VR,AMSS,Headphone,5P	3
	4-235T-38071	Socket, Ext Speaker	2
	141-2-368T-25700	Heat Sink	1
L702	4-258T-35641	OSC Coil	1
L801,901	4-252T-08300	Choke Coil, 15mH	2
L701	4-253T-10824	Filter 100μH	1
IC703		IC LB1405	1
IC702		IC LA4505	1
IC701		IC BA343	1
IC601		IC LC7510	1
Q801,901 802,902 803,903		Transistor 2SC1815	6
Q804,904 806,906 602,807 Q704		Transistor 2SC1815 Transistor 2SD400 with Fin	6 1
Q705,706		Transistor 2SC536	2
Q702,805 905,601 703		Transistor 2SC536	5
Q707		Transistor 2SA608	1
Q907		Transistor 2SC1815	1
D603,602 707,703 704		Diode GMA01	5
D705,706 801,802 901,902		Diode GMA01	6
D723,724		Diode GMA01	2
D601		Diode DS135 E	1
D709		Zener Diode GZA6.8Z	1
D701,708		Zener Diode GZA3.3Y	2
D604		Zener Diode GZA5.6Y	1
	CAPACITORS		
C740,741 742,743 744,738		Electrolytic 1μF 25V	6
C829,929 606,610 609,828		Electrolytic 1μF 25V	6
C928,837 839,819 919,806		Electrolytic 1μF 25V	6

Key No.	Part No.	Description	Q'ty
AMP PCB ASS'Y			
C906,822 922,751		Electrolytic 1μF 25V	4
C701,605 705,722 723		Electrolytic 10μF 10V	5
C808,908		Electrolytic 10μF 10V	2
C737		Electrolytic 4.7μF 16V	1
C760,706 710		Electrolytic 47μF 10V	3
C708		Electrolytic 47μF 16V	1
C704,832 932,613		Electrolytic 100μF 10V	4
C727,725		Electrolytic 220μF 10V	2
C752,753 712,835 935		Electrolytic 100μF 16V	5
C739		Electrolytic 100μF 16V	1
C713		Electrolytic 220μF 16V	1
C721		Electrolytic 10μF 25V	1
C804,904		Electrolytic 33μF 25V	2
C841,941		Electrolytic 1000μF 10V	2
C728		Electrolytic 2200μF 16V	1
C845,945		AL Electtolytic 0.22μF 25V	2
C817,917		Electrolytic 0.22μF 50V	2
C709		Electrolytic 470μF 10V	1
C611		Electrolytic 33μF 10V	1
C762, 761		Electrolytic 100μF 10V	2
C711		Electrolytic 220μF 16V	1
C849,949		Ceramic 33pF 50V ±10%	2
C703,807 907,820 920		Ceramic 100pF 50V ±10%	5
C736		Ceramic 120pF 50V ±10%	1
C843,943		Ceramic 270pF 50V ±10%	2
C811,911		Ceramic 300pF 50V ±5%	2
C803,903		Ceramic 680pF 50V ±10%	2
C818,918		Ceramic 820pF 50V ±10%	2
C815,915 848,948 912,812		Ceramic 0.001μF 50V ±10%	6
C813,913 838,759		Ceramic 0.001μF 50V ±10%	4
C714		Ceramic 0.001μF 50V ±10%	1
C715		Ceramic 0.0033μF 50V ±10%	1
C720		BC CON 0.0047μF 25V ±20%	1
C726		Ceramic 0.01μF 50V +80—20%	1
C601,602 612		BC CON 0.0068μF 25V ±20%	3
C831,931 809,909 604,607		BC CON 0.01μF 25V ±10%	6
C608		BC CON 0.01μF 25V ±10%	1
C810,910 719		BC CON 0.022μF 25V ±20%	3
C717,718		BC CON 0.0033μF 25V ±20%	2
C851,951 754,756 757		Ceramic 100pF 50V ±10%	5
C852,952		BC CON 0.018μF 25V ±20%	2
C850,950		Ceramic 0.0015μF 50V ±10%	2
C724		Ceramic 0.022μF 50V +80—20%	1
C805,905		Ceramic 180pF 50V ±10%	2
C716		Mylar 0.018μF 50V ±5%	1
C836,936		Mylar 0.15μF 50V ±10%	2
C847,947		Ceramic 330pF 50V ±10%	2
	RESISTORS		
R713,733	4-221T-06800	Fuse Resistor 2.2 ohm 1/4W	2
R729		Carbon 3.3 ohms ±5% 1/6W	1
R736	4-221T-06900	Fuse Resistor 6.8 ohms 1/4W	1
R825,925		Carbon 22 ohms ±5% 1/6W	2
R617		Carbon 47 ohm ±5% 1/6W	1
R807,907 808,908		Carbon 47 ohms ±5% 1/6W	4
R731,830 930		Carbon 68 ohms ±5% 1/6W	3

PARTS LIST

Key No.	Part No.	Description	Q'ty
AMP PCB ASS'Y			
	RESISTORS		
R711		Carbon 100 ohms ±5% 1/6W	1
R603,732, 714		Carbon 150 ohms ±5% 1/6W	3
R608,734		Carbon 220 ohms ±5% 1/6W	2
R723		Carbon 560 ohms ±5% 1/6W	1
R850,950		Carbon 680 ohms ±5% 1/6W	2
R606,616 709,739		Carbon 1K ohms ±5% 1/6W	4
R712		Carbon 1.2K ohms ±5% 1/6W	1
R611		Carbon 2.2K ohms ±5% 1/6W	1
R708,827 927		Carbon 2.7K ohms ±5% 1/6W	3
R814,914 829,929 847,947		Carbon 3.3K ohms ±5% 1/6W	6
R728,816 916,838 938		Carbon 4.7K ohms ±5% 1/6W	5
R852,952		Carbon 33 ohms ±5% 1/6W	2
R602,605 721		Carbon 5.6K ohms ±5% 1/6W	3
R839,939		Carbon 33ohms ±5% 1/6W	2
R703,844 944,742 738		Carbon 1K ohms ±5% 1/6W	5
R921,821		Carbon 3.9K ohms ±5% 1/6W	2
R732		Carbon 150 ohms ±5% 1/6W	1
R809,909		Carbon 6.8K ohms ±5% 1/6W	2
R604,819 919		Carbon 8.2K ohms ±5% 1/6W	3
R614,702 724,725 726		Carbon 10K ohms ±5% 1/6W	5
R727,817 917,820 920,716		Carbon 10K ohms ±5% 1/6W	6
R822,922 824,924		Carbon 10K ohms ±5% 1/6W	4
R810,910 815,915		Carbon 12K ohms ±5% 1/6W	4
R720		Carbon 15K ohms ±5% 1/6W	1
R718		Carbon 18K ohms ±5% 1/6W	1
R823,923 845,945		Carbon 22K ohms ±5% 1/6W	4
R710,737 615,812 912,813		Carbon 47K ohms ±5% 1/6W	6
R913,840 940,841 941		Carbon 47K ohms ±5% 1/6W	5
R803,903		Carbon 68K ohms ±5% 1/6W	2
R818,918 609,613		Carbon 100K ohms ±5% 1/6W	4
R719,846 946		Carbon 100K ohms ±5% 1/6W	3
R612		Carbon 120K ohms ±5% 1/6W	1
R607		Carbon 150K ohms ±5% 1/6W	1
R811,911 853,953		Carbon 220K ohms ±5% 1/6W	4
R601		Carbon 470K ohms ±5% 1/6W	1
R707,826 926		Carbon 680K ohms ±5% 1/6W	3
R717		Carbon 1M ohms ±5% 1/6W	1
R849,949		Carbon 33K ohms ±5% 1/6W	2
R741,828 928		Carbon 82K ohms ±5% 1/6W	3
R740		Carbon 220K ohms ±5% 1/6W	1
R617		Carbon 470 ohms ±5% 1/6W	1
R715		Carbon 56K ohms ±5% 1/6W	1
SOCKET PCB ASS'Y			
B	141-4-250T-49901	P.C. Board Ass'y, Socket	1
	4-235R-86100	Socket, Mic R	1
	4-235T-38071	Socket, Mic L	1
	4-240T-05900	Socket, RCA L	2
	4-240T-05971	Socket, RCA R	2
	4-236T-19772	Plug 4P, AMP ~ C. MIC	1

Key No.	Part No.	Description	Q'ty
SOCKET PCB ASS'Y			
	CAPACITORS		
C707		Electrolytic 33μF 10V	1
C801,901		BC CON 0.068μF 25V ±20%	2
C802,902		BC CON 0.033μF 25V ±20%	2
C846,946		Ceramic 120pF 50V ±10%	2
C844,944		Ceramic 220pF 50V ±10%	2
C755		Ceramic 680pF 50V ±10%	1
	RESISTORS		
R745		Carbon 1.5K ohms ±5% 1/6W	1
R806,906		Carbon 2.2K ohms ±5% 1/6W	2
R701		Carbon 33K ohms ±5% 1/6W	1
R801,901		Carbon 56K ohms ±5% 1/6W	2
R802,902		Carbon 390K ohms ±5% 1/6W	2
R805,905		Carbon 3.9K ohms ±5% 1/6W	2
R851,951		Carbon 150K ohms ±5% 1/6W	2
R831,931		Carbon 1K ohms ±5% 1/6W	2
R804,904		Carbon 5.6K ohms ±5% 1/6W	2
VOLUME PCB ASS'Y			
C	141-4-250T-50000	P.C Board Ass'y, Volume	1
	4-220T-02200	Variable Resistor 50K-B, Main	1
	4-220T-02300	Variable Resistor 50K-W, Balance	1
	4-238T-44400	Switch, AMSS Program	1
	4-238T-52000	Switch, Tone	3
		LED GL9PR54 Red	3
	CAPACITORS		
C824,924		Electrolytic 0.1μF 50V	2
C823,923		Ceramic 0.0015μF 50V ±10%	2
C827,927		Ceramic 0.0047μF 50V ±10%	2
C825,925		BC CON 0.018μF 25V ±20%	2
C826,926		BC CON 0.033μF 25V ±20%	2
	RESISTORS		
R832,932		Carbon 1K ohms ±5% 1/6W	2
R835,935		Carbon 100K ohms ±5% 1/6W	2
R833,933		Carbon 33K ohms ±5% 1/6W	2
R834,934		Carbon 4.7K ohms ±5% 1/6W	2
R837,937		Carbon 4.7K ohms ±5% 1/6W	2
R610		Carbon 680 ohms ±5% 1/6W	2
R838,938		Carbon 8.2K ohms ±5% 1/6W	2
R836,936		Carbon 220K ohms ±5% 1/6W	2
LED PCB ASS'Y			
D	141-4-250T-50172	P.C Board Ass'y, LED	1
D714,715 716,717 718		LED SLP167B Red	1
D721,719		LED SLP141BB Red	2
D720		LED SLP241B Green	1
D722		Zener Diode GZA5.6X	1
	RESISTORS		
R735		Carbon 330 ohms ±5% 1/6W	1
R744		Carbon 2.7K ohms ±5% 1/6W	1

PARTS LIST

Key No.	Part No.	Description	Q'ty
MIX. MIC. PCB ASS'Y			
E	141-4-250T-50200	P.C Board Ass'y, Mix. Microphone	1
	4-235T-99272	Socket	1
	4-220T-02400	Variable Resistor 10K-A	1
C758		Ceramic Cap. 100pF 50V ±10%	1
SWITCH PCB ASS'Y			
F	141-4-250T-50300	P.C Board Ass'y, Switch	1
	4-238T-52100	Switch	1
HEADPHONE PCB ASS'Y			
G	141-4-250T-50400	P.C Board Ass'y, Head phone	1
	4-240T-07771	Socket, Without Switch	1
	4-240T-07400	Socket, With Switch	1
R842,942 843,943		Solid Res. 100 ohms ±10% 1/2W	4
POWER SOURCE PCB ASS'Y			
H	141-4-250T-50574	P.C Board Ass'y, Power Source	1
	4-235T-59871	Socket, AC/DC	1
	4-238T-20400	Switch	1
	4-240T-30900	Socket 2P	1
		Diode DS135 D	1
C732,733 734,735		Ceramic Cap. 0.022μF 50V +80–20%	4
	141-2-381T-04200	Bracket, Fuse Mtg.	2
TUNER PCB ASS'Y			
I	141-4-250T-60272	P.C Board Ass'y, Tuner	1
VC1~4	4-224T-17700	Variable Capacitor	1
SVR501	4-222T-97575	Semifixed Variable Resistor 10K	1
S1~1 1~10	4-238T-54900	Switch, Band Select	1
	4-240T-11272	Socket 5P, TUNER-AMP	1
S2	4-231R-14991	Switch, Stereo/Mono	1
CT1,3	4-224T-21000	Trimmer 10pF	2
CT2,4	4-224T-21800	Trimmer 30pF	2
CF303	4-256T-81171	I.F Filter, AM 460KHz	1
L101	4-265R-11300	V.H.F. Coil	1
L103	4-265T-51310	V.H.F. Coil	1
L104	4-252T-08608	Choke Coil	1
L102	4-253T-10804	Filter 2.2μH	1
L106-1,2	4-257T-51701	Ant Coil Ass'y, MW, LW	1
L109	4-258T-40930	OSC Coil, LW	1
L108	4-258T-35310	OSC Coil, MW	1
L107	4-258T-40030	OSC Coil, SW	1
L105	4-257T-06540	Ant Coil, SW	1
T301	4-256T-23030	IFT	1
T302	4-256T-25730	IFT	1
T303	4-256T-22910	IFT	1
T304	4-256T-23910	IFT	1
B101	123-2-471R-10900	Core	1
	4-256T-86000	I.F. Filter 10.7M Red	
	4-256T-86071	I.F. Filter 10.67M Blue	
CF301 302	4-256T-86072	I.F. Filter 10.73M Orange } or	2
	4-256T-86073	I.F. Filter 10.64M Black	
	4-256T-86074	I.F. Filter 10.76M White	
BPF	4-253T-15200	Filter	1
IC301		IC HA12421A	1
IC501		IC LA3365	1
Q101		FET 2K212	1
Q103		Transistor 2SC930	1
Q104		Transistor 2SC930	1
Q105,106		Transistor 2SC930	2
Q301		Transistor 2SC930	1
Q302		Transistor 2SC536	1
Q303		Transistor 2SA608	1
Q102		Transistor 2SC2840	1

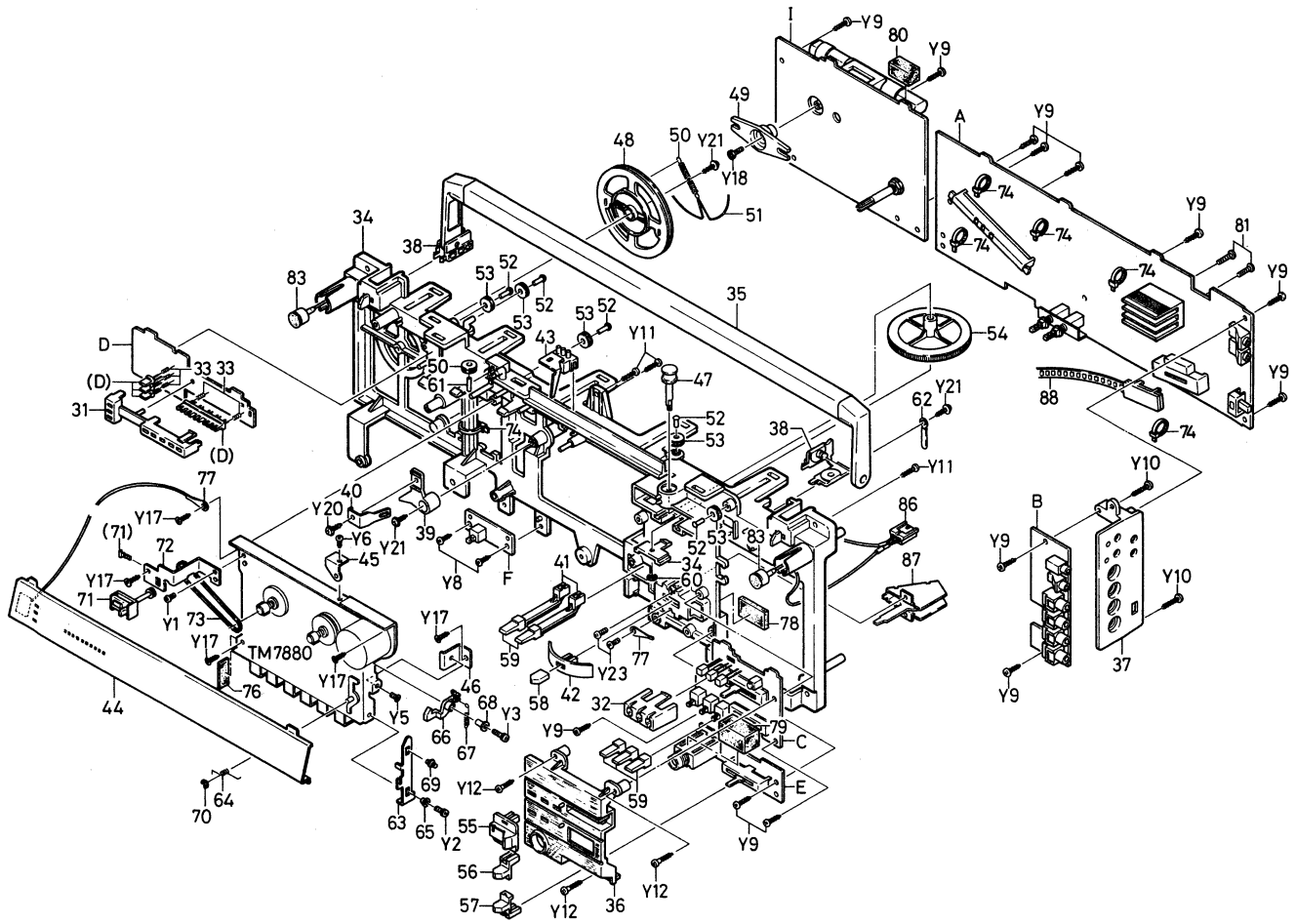
Key No.	Part No.	Description	Q'ty
TUNER PCB ASS'Y			
D103,104		Varactor Diode SD115	2
D101,102 301,302		Diode 1SS133	4
	CAPACITORS		
C102		Ceramic 1pF 50V ±0.25pF	1
C103		Ceramic 0.01μF 50V +80–20%	1
C123,124, 125		Ceramic 10pF 50V ±5%	3
C105,104		BC CON 0.022μF 25V ±20%	2
C106		Ceramic 20pF 50V ±5%	1
C107		Ceramic 4pF 50V ±0.25pF	1
C108		Ceramic 2pF 50V ±0.25pF	1
C109		Ceramic 100pF 50V ±10%	1
C111		Ceramic 0.022μF 50V +80–20%	1
C121		Ceramic 47pF 50V ±5%	1
C126		Ceramic 62pF 50V ±5%	1
C128,131		BC CON 0.01μF 25V ±20%	2
C130		BC CON 0.0022μF 25V ±20%	1
C140		BC CON 0.047μF 25V ±20%	1
C301,311 315		Ceramic 220pF 50V ±10%	3
C302		BC CON 0.022μF 25V ±20%	1
C317,321		BC CON 0.047μF 25V ±20%	2
C514,515		BC CON 0.012μF 25V ±20%	2
C503		P P CON 1000pF 100V ±5%	1
C110,112		Ceramic 0.022μF 50V +80–20%	2
C113,119 120		BC CON 0.022μF 25V ±20%	3
C114,115		Ceramic 12pF NPO 50V ±5%	2
C116		Ceramic 22pF NPO	1
C117		Ceramic 24pF NPO	1
C118		Ceramic 4pF NPO ±0.25pF	1
C139		Ceramic 10pF 50V ±10%	1
C127,129		BC CON 0.01μF 25V ±20%	2
C132		BC CON 0.022μF 25V ±20%	1
C134		Ceramic 15pF N750 50V ±5%	1
C136		Mylar 0.0033μF 50V ±10%	1
C303,306 308,309		BC CON 0.022μF 25V ±20%	4
C304,305 310		Ceramic 0.022μF 50V +80–20%	3
C312,316 314,322		BC CON 0.022μF 25V ±20%	4
C320		BC CON 0.018μF 25V ±20%	1
C502		BC CON 0.047μF 25V ±20%	1
C508,509		BC CON 0.01μF 25V ±20%	2
C138		Styrol 250pF 50V ±5%	1
C137		P P CON 340pF 100V ±5%	1
C143		Ceramic 0.01μF 50V +80–20%	1
C307		Electrolytic 100μF 10V	1
C318,506 507		Electrolytic 1μF 50V	3
C510,511		Electrolytic 0.22μF 50V	2
C313		Electrolytic 10μF 25V	1
C319,516		Electrolytic 220μF 10V	2
C504		Electrolytic 0.47μF 50V	1
C505		Electrolytic 1μF 50V	1
C501		Electrolytic Nonpolar 2.2μF 16V	1
C135		Ceramic 200pF 50V ±5% NPO	1
C144		Ceramic 7pF 50V ±0.5pF	1
C133		Ceramic 100pF 50V ±10%	1
C323		BC CON 0.0068μF 25V ±20%	1

PARTS LIST

Key No.	Part No.	Description	Q'ty
TUNER PCB ASS'Y			
	RESISTORS		
R111		Carbon 100K ohms ±5% 1/6W	1
R113		Carbon 56 ohms ±5% 1/6W	1
R104		Carbon 150K ohms ±5% 1/6W	1
R105,106 122,130		Carbon 1K ohms ±5% 1/6W	4
R107		Carbon 560 ohms ±5% 1/6W	1
R108		Carbon 82K ohms ±5% 1/6W	1
R112		Carbon 330K ohms ±5% 1/6W	1
R114		Carbon 2.7K ohms ±5% 1/6W	1
R115		Carbon 68K ohms ±5% 1/6W	1
R116,120		Carbon 3.3K ohms ±5% 1/6W	2
R117		Carbon 33 ohms ±5% 1/6W	1
R118,119		Carbon 15K ohms ±5% 1/6W	2
R121		Carbon 27K ohms ±5% 1/6W	1
R124		Carbon 10 ohms ±5% 1/6W	1
R125		Carbon 15 ohms ±5% 1/6W	1
R126		Carbon 680 ohms ±5% 1/6W	1
R127		Carbon 22 ohms ±5% 1/6W	1
R129		Carbon 220K ohms ±5% 1/6W	1
R131		Carbon 1.5K ohms ±5% 1/6W	1
R102		Carbon 330 ohms ±5% 1/6W	1
R109		Carbon 2.2K ohms ±5% 1/6W	1
R110		Carbon 3.3K ohms ±5% 1/6W	1
R103		Carbon 47 ohms ±5% 1/6W	1
R132		Carbon 100K ohms ±5% 1/6W	1
R133		Carbon 22K ohms ±5% 1/4W	1
R134		Carbon 1.2K ohms ±5% 1/6W	1
R135		Carbon 22K ohms ±5% 1/6W	1
R123		Carbon 3.9K ohms ±5% 1/6W	1

Key No.	Part No.	Description	Q'ty
TUNER PCB ASS'Y			
R301		Carbon 56 ohms ±5% 1/6W	1
R302,318		Carbon 33 ohms ±5% 1/6W	2
R303		Carbon 100K ohms ±5% 1/6W	1
R304		Carbon 2.2K ohms ±5% 1/6W	1
R305,308 310		Carbon 330 ohms ±5% 1/6W	3
R306,307 315		Carbon 220 ohms ±5% 1/6W	3
R309,312		Carbon 10K ohms ±5% 1/6W	2
R311		Carbon 470 ohms ±5% 1/6W	1
R313,320		Carbon 100 ohms ±5% 1/6W	2
R314,328		Carbon 10 ohms ±5% 1/6W	2
R316		Carbon 220 ohms ±5% 1/6W	1
R322,325		Carbon 1K ohms ±5% 1/6W	2
R319		Carbon 680K ohms ±5% 1/6W	1
R321		Carbon 120K ohms ±5% 1/6W	1
R323		Carbon 22K ohms ±5% 1/6W	1
R324		Carbon 270 ohms ±5% 1/6W	1
R501		Carbon 6.8K ohms ±5% 1/6W	1
R502,503		Carbon 1K ohms ±5% 1/6W	2
R504,505		Carbon 3.3K ohms ±5% 1/6W	2
R506		Carbon 470 ohms ±5% 1/6W	1
R507		Carbon 560 ohms ±5% 1/6W	1
R510,511		Carbon 1.8K ohms ±5% 1/6W	2
R512,513		Carbon 27K ohms ±5% 1/6W	2
R327		Carbon 3.9K ohms ±5% 1/6W	1

CHASSIS EXPLODED VIEW



PARTS LIST

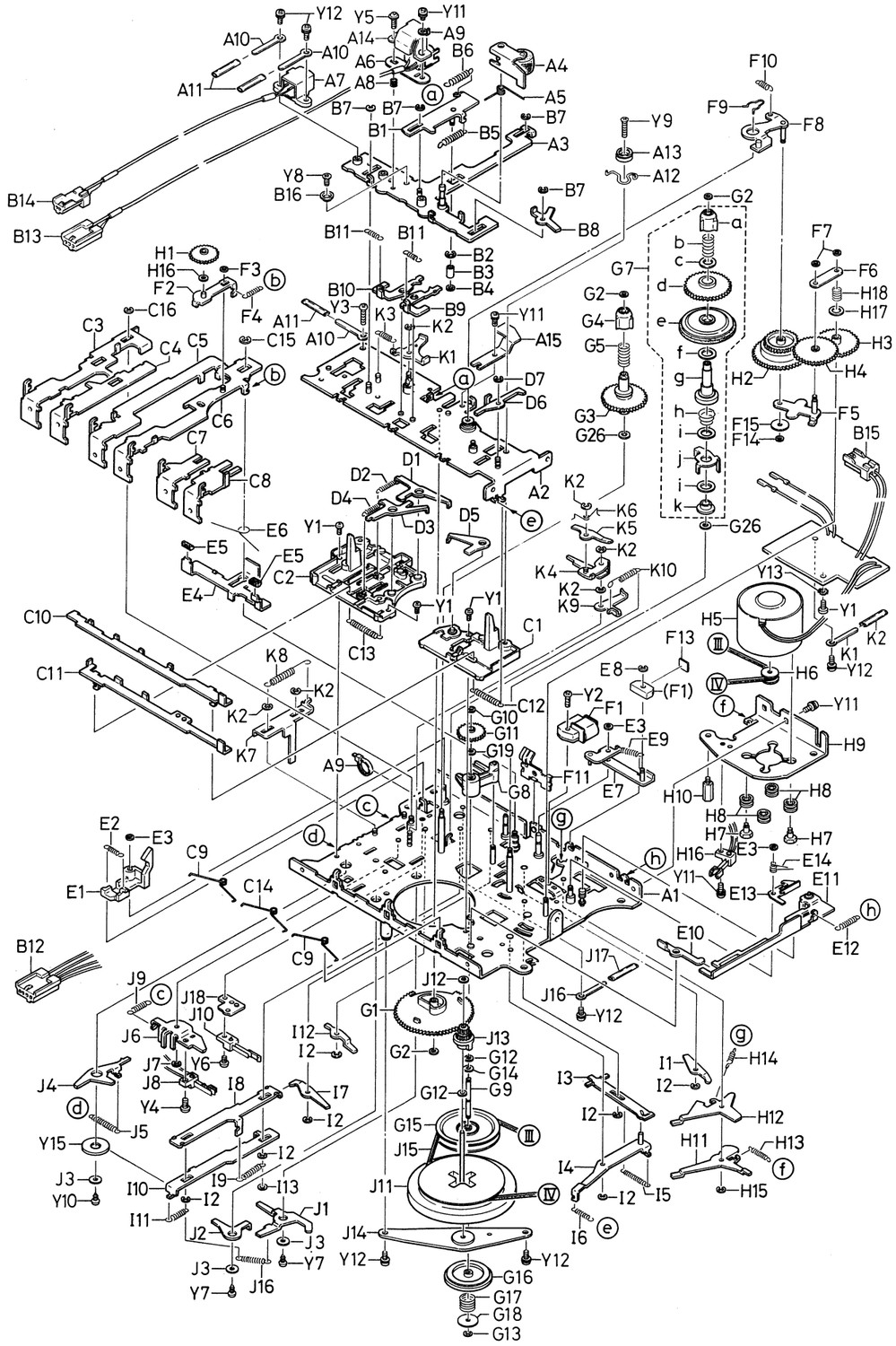
Key No.	Part No.	Description	Q'ty
MECHANISM (TM7880)			
A1	141-0-311T-40001	Chassis Ass'y	1
A2	141-0-737T-09102	Bracket Slide Ass'y	1
A3	141-0-731T-97102	Slide Ass'y	1
A4	141-0-545T-07700	Lever Pinch Roller Ass'y	1
A5	141-2-852T-72900	Spring Wire	1
A6	4-242T-27072 4-242T-27000	Magnetic Head R/P Magnetic Head R/P) or	1
A7	4-242T-26300 4-242T-26371	Magnetic Head, E Magnetic Head, E) or	1
A8	141-2-855T-87700	Spring Coil	1
A9	141-2-464T-40200	Fixer	2
A10	141-2-472T-02200	Lug	5
A11	141-2-490T-00600	Tube	1
A12	141-2-852T-77301	Spring Wire	1
A13	141-2-461T-43600	Pipe	1
A14	141-2-322T-75500	Shield Plate	1
A15	141-2-737T-09500	Bracket, Slide	1
B1	141-0-732T-05300	Slide Ass'y	1
B2	141-2-457T-23000	Special Washer	2
B3	141-2-461T-41600	Pipe	1
B4	141-2-453T-33901	Washer 1.2x2.5x0.25t	1
B5	141-2-855T-88300	Spring Coil	1
B6	141-2-855T-88201	Spring Coil	1
B7	141-2-457T-23800	Special Washer 1.5mm	4
B8	141-2-742T-78400	Lever	1
B9	141-2-742T-78200	Lever	1
B10	141-2-742T-78300	Lever	1
B11	141-2-855T-88601	Spring Coil	2
B12	4-240T-33600	Socket 4P	1
B13	4-240T-33700	Socket 3P	1
B14	4-240T-33800	Socket 2P	1
B15	4-240T-34500	Socekt 2P	1
B16	141-2-461T-44500	Pipe	1
C1	141-2-737T-08900	Bracket Slide	1
C2	141-2-737T-09000	Bracket Slide	1
C3	141-0-732T-04800	Slide Ass'y, Rec	1
C4	141-2-732T-04700	Slide, Play	1
C5	141-2-731T-96300	Slide, Rew	1
C6	141-0-731T-96400	Slide Ass'y, F FWD	1
C7	141-2-731T-96500	Slide, Stop	1
C8	141-2-731T-96600	Slide, Pause	1
C9	141-2-852T-73100	Spring Wire	2
C10	141-2-731T-96700	Slide	1
C11	141-2-731T-96800	Slide	1
C12	141-2-855T-89200	Spring Coil	1
C13	141-2-855T-89300	Spring Coil	1
C14	141-2-852T-73101	Spring Wire	1
C15	141-2-457T-23000	Special Washer 2mm	1
C16	141-2-457T-23800	Special Washer 1.5mm	1
D1	141-2-742T-76200	Lever	1
D2	141-2-856T-06300	Spring Coil	1
D3	141-2-742T-76302	Lever	1
D4	141-2-855T-89800	Spring Coil	1
D5	141-2-742T-76400	Lever	1
D6	141-2-742T-78500	Lever	1
D7	141-2-457T-23800	Special Washer 1.5mm	2
E1	141-2-742T-91500	Lever	1
E2	141-2-856T-02400	Spring Coil	1
E3	141-2-457T-23800	Special Washer 1.5mm	1
E4	141-2-731T-97000	Slide	1
E5	141-2-712T-03700	Brake Shou	2
E6	141-2-852T-73000	Spring Wire	1
E7	141-0-742T-77000	Lever Ass'y	1
E8	141-2-457T-23800	Special Washer 1.5mm	2
E9	141-2-855T-88400	Spring Coil	1
E10	141-2-742T-76600	Lever	1
E11	141-0-731T-96900	Slide Ass'y	1
E12	141-2-855T-90000	Spring Coil	1
E13	141-2-614T-06200	Lever Lock	1
E14	141-2-852T-73300	Spring Wire	1
F1	4-264T-11500	Magnetic Coil	1
F2	141-0-742T-76100	Lever Ass'y	1
F3	141-2-457T-23800	Special Washer 1.5mm	1
F4	141-2-855T-99200	Spring Coil	1
F5	141-0-742T-76800	Lever Ass'y	1
F6	141-2-742T-76900	Lever	1
F7	141-2-453T-33600	Washer 1.3x3.2x0.25t	3
F8	141-0-742T-76700	Lever Ass'y	1
F9	141-2-852T-77000	Spring Wire	1
F10	141-2-855T-88500	Spring Coil	1
F11	141-2-853T-74901	Spring Plate	1

Key No.	Part No.	Description	Q'ty
MECHANISM (TM7880)			
F12	141-2-453T-31200	Washer 2x8.5x0.25t	1
F13	141-2-447T-13500	Cushion	1
F14	141-2-453T-31500	Washer 1.3x3x0.25t	1
G1	141-2-581T-23900	Gear	1
G2	141-2-453T-33100	Washer 1.6x3.2x0.25t	3
G3	141-2-581T-24600	Gear	1
G4	141-2-531T-13700	Reel Plate	1
G5	141-2-855T-87800	Spring Coil	1
G6	141-2-453T-30201	Washer 2.6x4.7x0.25t	1
G7	141-0-661T-34300	Pulley Ass'y	1
G8	141-0-742T-75700	Lever Ass'y	1
G9	141-2-754T-13000	Shaft	1
G10	141-2-453T-33600	Washer 1.2x3.2x0.25t	1
G11	141-2-581T-24300	Gear	1
G12	141-2-453T-30101	Washer 2.1x4x0.25 Nylon	3
G13	141-2-457T-23700	Special Washer 1.2mm	1
G14	141-2-457T-04110	Special Washer	1
G15	141-2-661T-34500	Pulley	1
G16	141-0-661T-34600	Pulley Ass'y	1
G17	141-2-855T-88100	Spring Coil	1
G18	141-2-457T-06200	Special Washer	1
G19	141-2-453T-30100	Washer 2.1x4x0.13 Nylon	2
H1	141-2-581T-24400	Gear	1
H2	141-2-581T-24000	Gear	1
H3	141-2-581T-24100	Gear	1
H4	141-2-581T-24200	Gear	1
H5	141-4-527T-18800	Motor Ass'y W/PCB	1
H6	141-2-661T-77201	Pulley Motor	1
H7	141-2-421T-28700	Special Screw	2
H8	141-2-445T-22200	Rubber Cushion	4
H9	141-2-378T-12001	Bracket, Motor	1
H10	141-2-421T-35601	Special Screw	1
H11	141-2-742T-77200	Lever	1
H12	141-2-742T-77300	Lever	1
H13	141-2-855T-88900	Spring Coil	1
H14	141-2-855T-89000	Spring Coil	1
H15	141-2-457T-23800	Special Washer 1.5mm	1
H16	4-238T-49500	Switch	1
H17	141-2-453T-30501	Washer 4.1x6.5x0.25 Nylon	1
H18	141-2-855T-99800	Spring Coil	1
I1	141-2-742T-78600	Lever	1
I2	141-2-457T-23800	Special Washer 1.5mm	7
I3	141-2-731T-97400	Slide	1
I4	141-0-742T-77100	Lever Ass'y	1
I5	141-2-855T-90100	Spring Coil	1
I6	141-2-855T-89100	Spring Coil	1
I7	141-2-742T-77400	Lever	1
I8	141-2-731T-97301	Slide	1
I9	141-2-855T-89400	Spring Coil	1
I10	141-2-732T-05100	Slide	1
I11	141-2-855T-89500	Spring Coil	1
I12	141-2-742T-91800	Lever	1
I13	141-2-457T-04110	Special Washer 1.7x4.7x0.5t	1
J1	141-2-742T-77600	Lever	1
J2	141-2-742T-77700	Lever	1
J3	141-2-457T-14000	Special Washer	3
J4	141-2-742T-77800	Lever	1
J5	141-2-855T-96400	Spring Coil	2
J6	141-2-742T-77500	Lever	1
J7	141-2-457T-23800	Special Washer 1.5mm	1
J8	4-238T-48400	Switch, AMSS	1
J9	141-2-855T-88800	Spring Coil	1
J10	4-238T-03900	Switch	1
J11	141-0-521T-13300	Flywheel Ass'y	1
J12	141-2-453T-30102	Washer 2x4x0.5m	2
J13	141-2-581T-23800	Gear	1
J14	141-0-524T-09900	Bracket Flywheel Ass'y	1
J15	141-2-564T-26400	Square Belt	1
J16	141-2-472T-02200	Lug	1
J17	141-2-490T-00600	Tube	1
J18	141-2-365T-57200	Bracket, Switch	1
K1	141-2-742T-92100	Lever	1
K2	141-2-457T-23800	Special Washer 1.5mm	5
K3	141-2-856T-02400	Spring Coil	1
K4	141-0-742T-91900	Lever Ass'y	1
K5	141-2-742T-92000	Lever	1
K6	141-2-852T-79700	Spring Wire	1
K7	141-2-732T-05200	Slide	1
K8	141-2-855T-88700	Spring Coil	1
K9	141-2-742T-91400	Lever	1
K10	141-2-856T-02100	Spring Coil	1

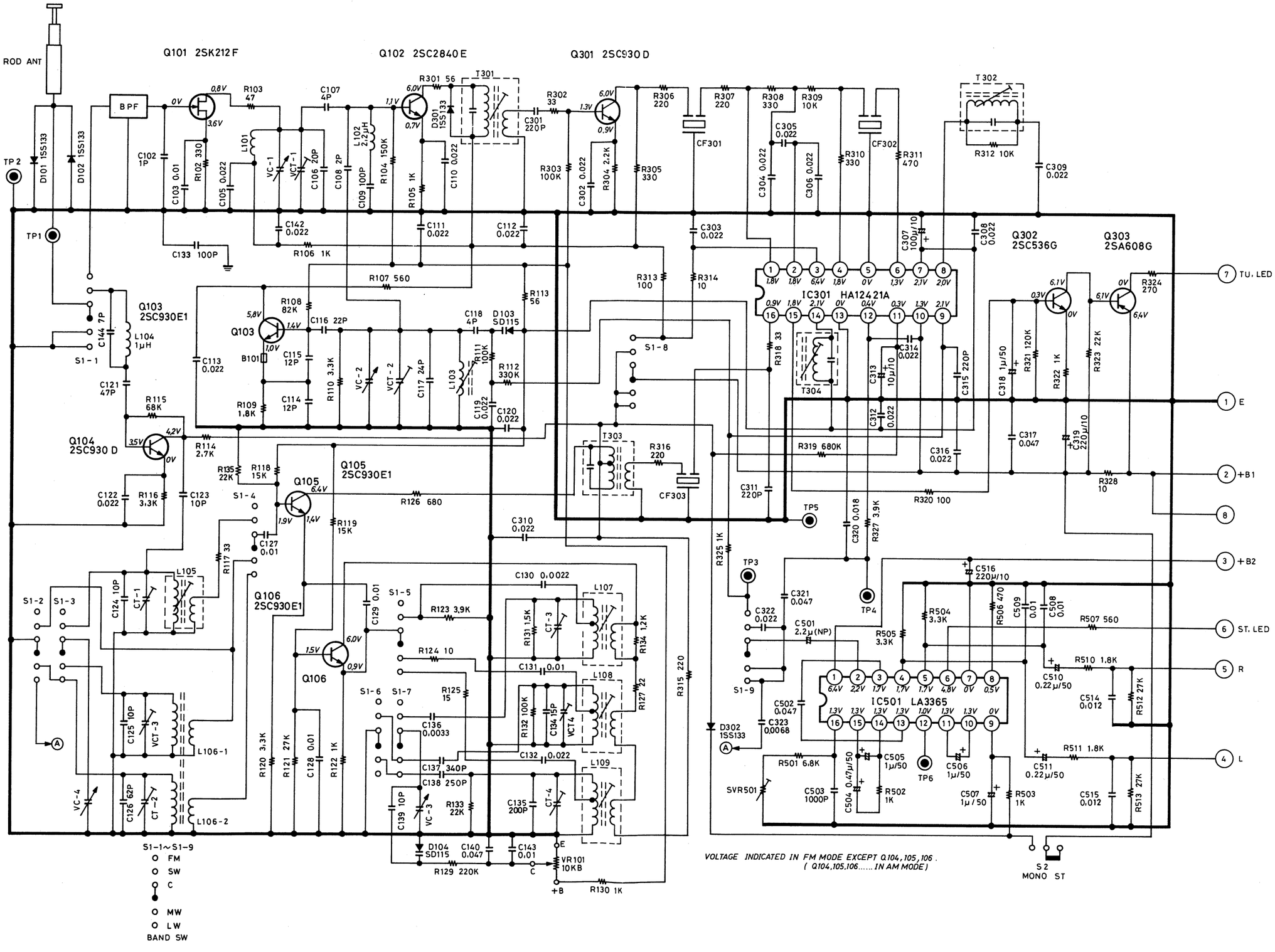
PARTS LIST

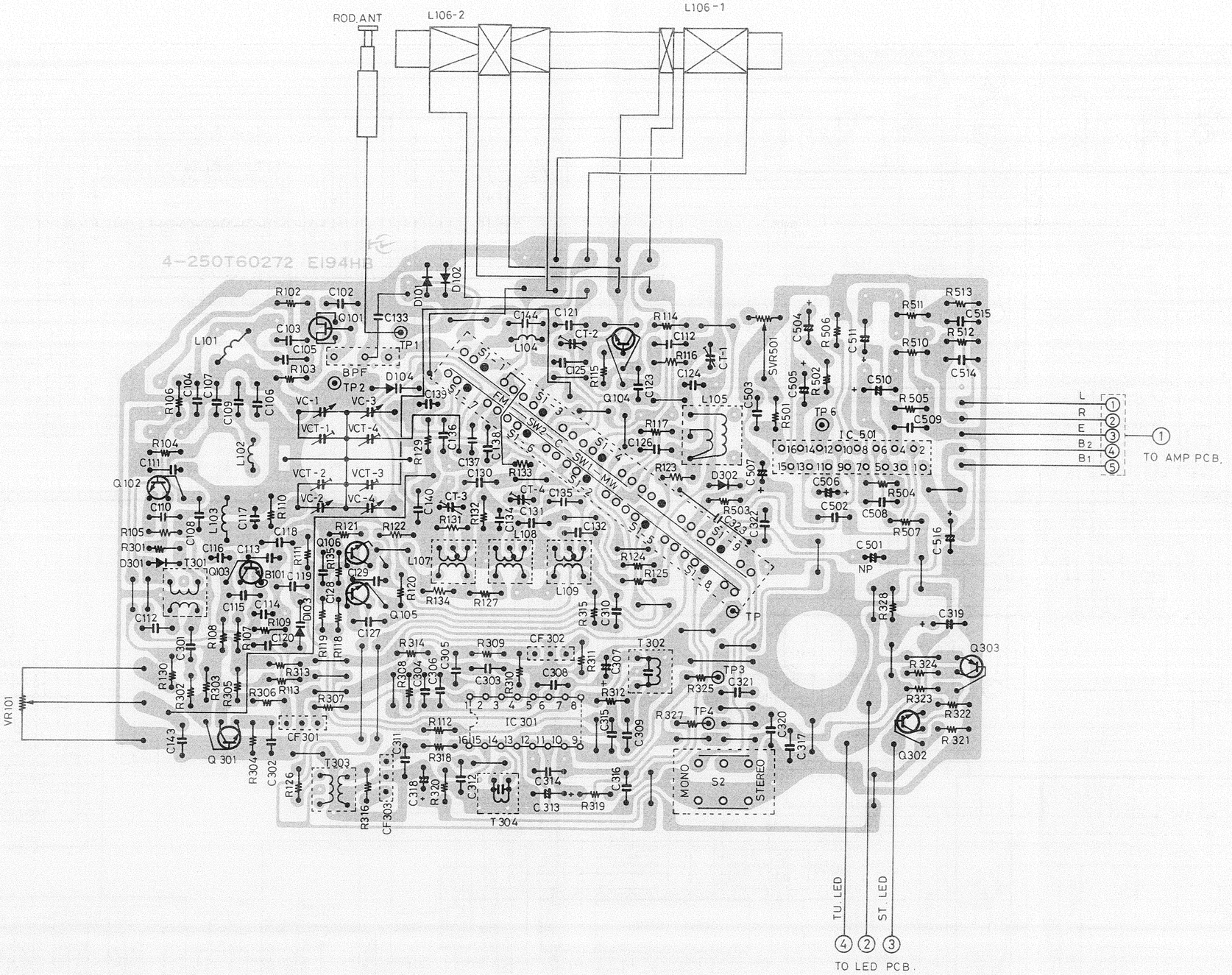
Key No.	Part No.	Description	Q'ty
HARDWARE			
Y1		Pan Hd. Screw 2x4mm	4
Y2		Pan Hd. Screw 2x6mm	1
Y3		Pan Hd. Screw 2x8mm	1
Y4		Pan Hd. Screw 2.6x3mm	2
Y5		Flat Hd. Screw 2x8mm	1
Y6		Pan Hd. Screw 2.3x4mm	1
Y7		Pan Hd. Tapping Screw 2x4mm	2
Y8		Special Flat Hd. Screw 2x2.5mm	1
Y9		Flat Hd. Screw 2x10mm	1
Y10		Pan Hd. Tapping Screw 2x6mm	1
Y11		Pan Hd. Screw W/Spring Washer 2x4mm	5
Y12		Pan Hd. Screw W/Spring Washer 2x5mm	5
Y13		Extend Tooth Lock Washer 2mm	1
Y14		Washer 2x8x0.5mm	1
Y15		Washer 4x13x1.2mm	1
Y16		Washer 2x4.3x0.4mm	1

MECHANISM EXPLODED VIEW



TUNER SCHEMATIC DIAGRAM



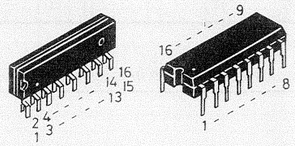


TRANSISTOR CONNECTION

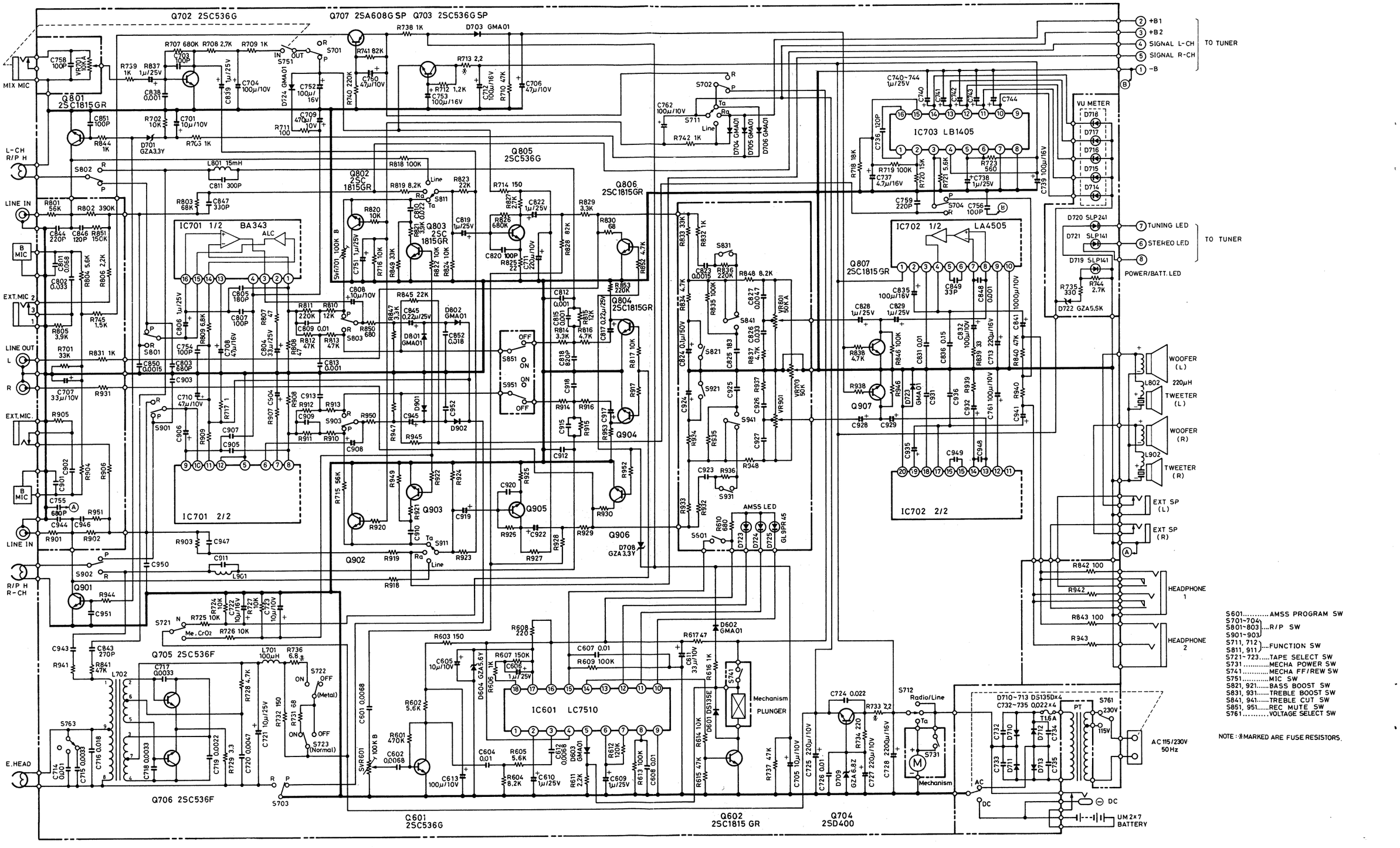
2SA608 2SK212 2SC2840 2SC536 2SC930

IC CONNECTION

LA3365 HA12421



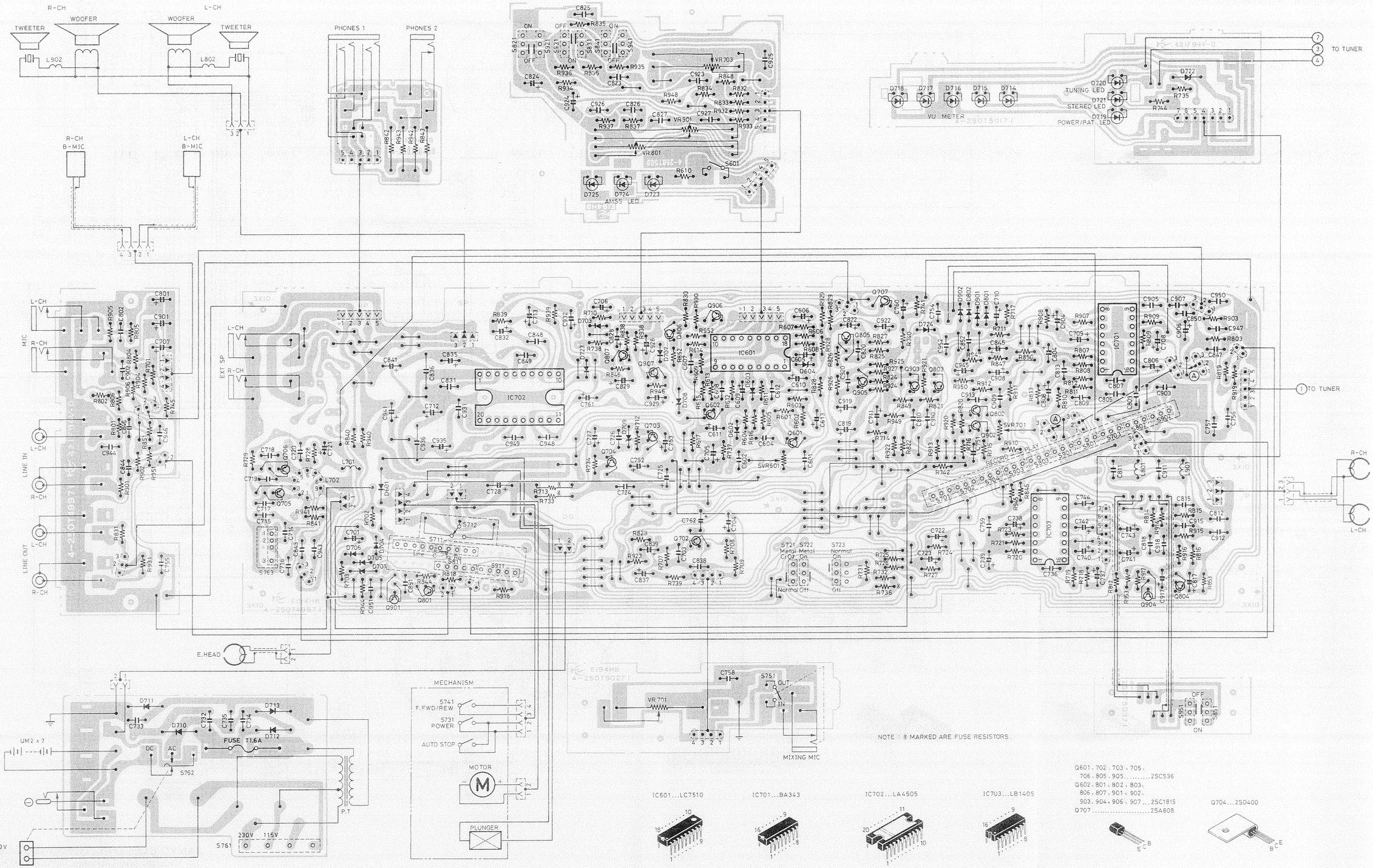
AMP SCHEMATIC DIAGRAM



S601.....AMSS PROGRAM SW
S701~704
S801~803....R/P SW
S901~903
S711, 712
S811, 911....FUNCTION SW
S721~723.....TAPE SELECT SW
S731.....MECHA POWER SW
S741.....MECHA FF/REW SW
S751.....MIC SW
S821, 921.....BASS BOOST SW
S831, 931.....TREBLE BOOST SW
S841, 941.....TREBLE CUT SW
S851, 951.....REC MUTE SW
S761.....VOLTAGE SELECT SW

NOTE : ※MARKED ARE FUSE RESISTORS.

AMP WIRING DIAGRAM



IC601...LC7510

IC701...BA343

IC702...LA4505

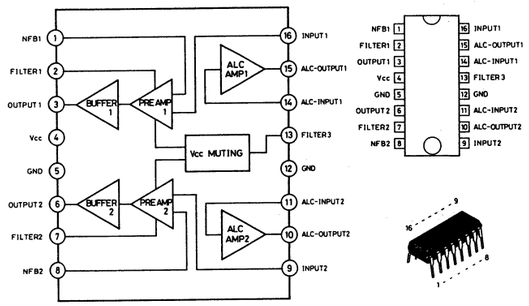
IC703...LB1405

Q601、702、703、705、706、805、905.....2SC536
Q602、801、802、803、806、807、901、902、903、904、906、907...2SC1815
Q707.....2SA608

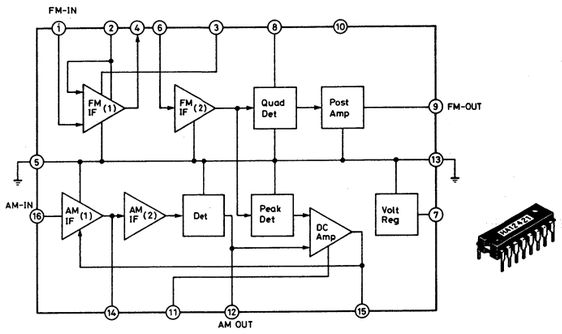
Q704...2SD400

IC BLOCK DIAGRAM

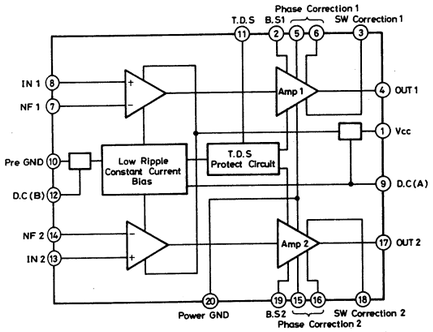
BA343 (DUAL PRE AMPLIFIER with ALC)



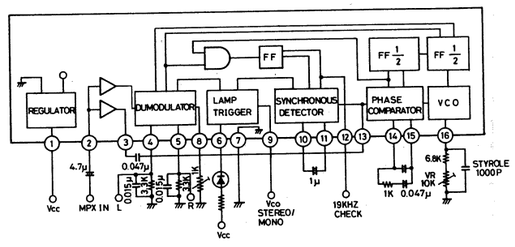
HA12421 (IF System)



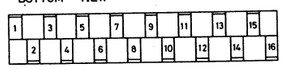
LA4505 (Dual Power Amplifier)



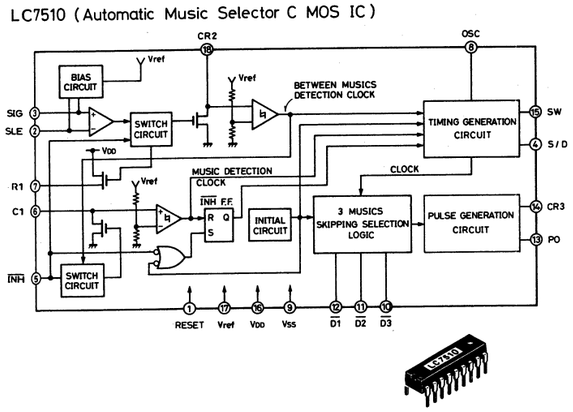
LA-3365 (PLL FM-PX STEREO DEMODULATOR)



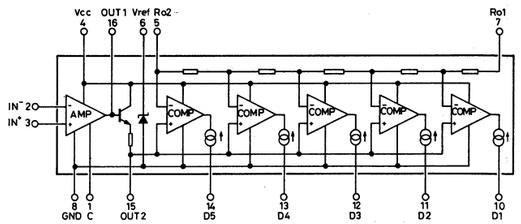
BOTTOM VIEW

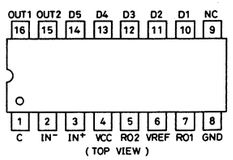


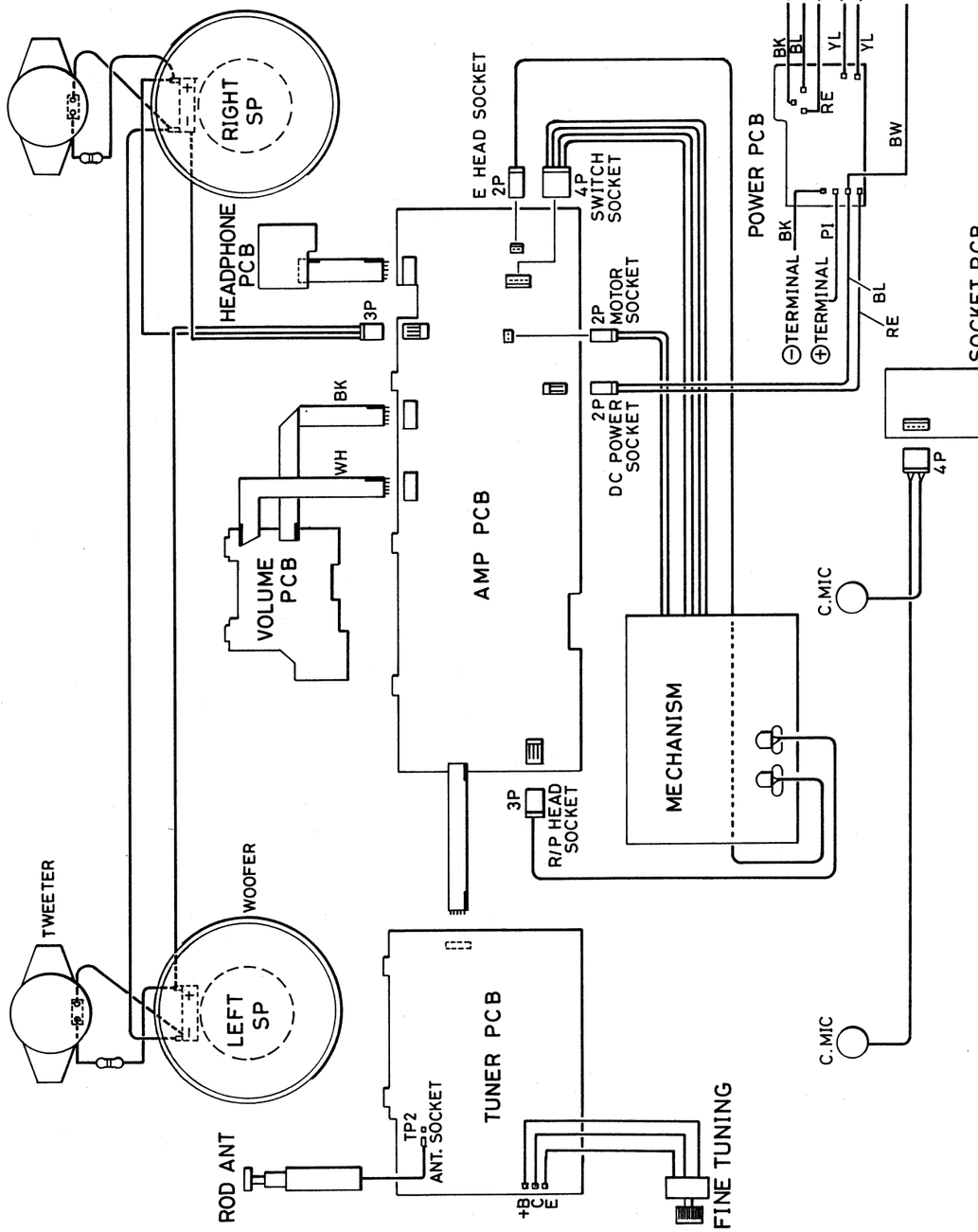
LC7510 (Automatic Music Selector C MOS IC)



LB1405 (LEVEL METER DRIVER)







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